Dr. David P. Weber
Director, Transportation Research and Analysis Computing Center

Professional Experience

Argonne National Laboratory (1974 - Present)

Director, Transportation Technology Research and Analysis Computing Center (TRACC) (2005-Present)

Manage all activities associated with the establishment and operation of the US Department of Transportation Transportation Research and Analysis Computing Center (TRACC), including the acquisition and implementation of high performance, massively parallel computing systems and advanced visualization technologies and the development and management of modeling and simulation research programs in the areas of traffic simulation and evacuation planning and computational fluid dynamics and computational structural mechanics for transportation applications. Provide coordination with principal TRACC university partners at the University of Illinois, including the National Center for Supercomputing Applications (NCSA) and the NCSA Technology, Research and Education Commercialization Center (TRECC), and Northern Illinois University.

Director, New Program Development, Engineering Research Directorate (2003-2005)

Developed new programmatic opportunities for Argonne Divisions primarily in Engineering Research in the areas of transportation, nuclear energy and homeland security. Primary emphasis placed on the development of opportunities using high performance computing systems. Managed the DOE/Electric Power Research Institute joint project on the development of the Numerical Nuclear Reactor, an integrated, high fidelity computational model of nuclear reactors, for use in the design, operation and safety analysis of nuclear systems.

Director, Nuclear Engineering Division (2002-2003), Director, Reactor Engineering and Analysis Division (2000-2002), Associate Director, Reactor Engineering Division (1994-2000)

Managed nuclear energy related programs, including reactor design and analysis, computational methods development and application, safety analysis and experiments, facility and equipment design, materials control programs, et cet. Selected as Argonne Senior Engineer in 1994.

Director, Computing and Telecommunications Division (1986-1994)

Managed central computing and telecommunications systems for Argonne, including management of high performance computing systems, user support programs, lab-wide and external networking, systems programming and administrative computing systems.

Manager, Accident Analysis Section, Reactor Analysis and Safety Division (1979-1986) and Research Scientist (1974-1979)

Managed and developed programs focused on the development, testing, validation and application of modeling and simulation techniques for use in nuclear reactor safety analysis.

Education

Ph.D., Nuclear Engineering, University of Illinois at Urbana Champaign (1974)
MBA, University of Chicago (1986)
M.S., Nuclear Engineering, University of Illinois at Urbana Champaign (1970)
B.S., Mathematics, Northern Illinois University (1968)